



PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-228809

(43)Date of publication of application : 16.08.1994

(51)Int.Cl.

D01F 6/04
C04B 16/06
C08J 9/00
// C08L 23:04

(21)Application number : 05-016451

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(22)Date of filing : 03.02.1993

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(54) HIGH STRENGTH POLYETHYLENE FIBER

(57)Abstract:

PURPOSE: To provide the high strength porous fiber comprising polyethylene having a less weight than those of other polymer raw materials, excellent in adhesivity to matrix materials, and having a low cost.

CONSTITUTION: The high strength polyethylene fiber having a fiber diameter of 1-500 μ m and a tensile strength of ≥ 8 g/cm³ is characterized in that the fiber comprises polyethylene having a density of ≥ 0.960 g/cm³, preferably ≥ 0.965 g/cm³, and a mol.wt. of 150000-1000000, preferably 200000-1000000, that the center of the fiber is substantially non-porous, and that fine pores having an average pore diameter of 0.01-2 μ m exist in a porosity of 20-90% in a range of 0.2-5 μ m in thickness from the surface of the fiber.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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